

Title (en)

Automatic setting of optimal search window dimensions for motion estimation

Title (de)

Automatische Bestimmung der optimalen Suchfenstergrösse für Bewegungsschätzung

Title (fr)

Détermination automatique de la taille de la fenêtre de recherche pour l'estimation de mouvement

Publication

EP 1134981 A1 20010919 (EN)

Application

EP 00830200 A 20000317

Priority

EP 00830200 A 20000317

Abstract (en)

A method of estimating the motion field of a digital picture sequence comprises subdividing a current picture to examine in an integer number of macroblocks, for each macroblock of the current picture determining a search window centered on a macroblock of a preceding picture placed in the same position of the considered macroblock of the current picture, carrying out a motion estimation between the considered macroblock of the current picture and the macroblock most similar to it included in the window. At least a dimension of the search window is established in function of the corresponding dimension of the search window used for the preceding picture, the estimated motion field of the preceding picture and certain threshold values. <IMAGE>

IPC 1-7

H04N 7/26

IPC 8 full level

H04N 19/137 (2014.01); **H04N 19/51** (2014.01); **H04N 19/57** (2014.01)

CPC (source: EP US)

H04N 19/137 (2014.11 - EP US); **H04N 19/51** (2014.11 - EP US); **H04N 19/57** (2014.11 - EP US)

Citation (search report)

- [X] US 6014181 A 20000111 - SUN KAI [US]
- [A] US 5812199 A 19980922 - LU JIAN [US], et al

Cited by

NL1022352C2; EP1335606A3; EP1460854A4

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1134981 A1 20010919; US 2003190059 A1 20031009; US 6829373 B2 20041207

DOCDB simple family (application)

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